

0280

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/995,515

DATE: 12/05/2001

TIME: 10:01:39

Input Set : A:\00659Aseq.txt

Output Set: N:\CRF3\11212001\I995515.raw

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3 <110> APPLICANT: Jing, Shuqian
5 <120> TITLE OF INVENTION: Transforming Growth Factor-Beta-Related Molecules and
6 Uses Thereof
8 <130> FILE REFERENCE: 00-659-A
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/995,515
C--> 11 <141> CURRENT FILING DATE: 2001-11-28
13 <150> PRIOR APPLICATION NUMBER: 60/253,476
14 <151> PRIOR FILING DATE: 2000-11-28
16 <160> NUMBER OF SEQ ID NOS: 27
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34 1 5 10
36 atc tct aat gtg gag cag ctg atc ctg ggg atc ccg ggc cag aat cgc 160
37 Ile Ser Asn Val Glu Gln Leu Ile Leu Gly Ile Pro Gly Gln Asn Arg
38 15 20 25
40 cg^g gag ata ggc cat ggc cag gat atc ttt cca gca gag aag ctc tgc 208
41 Arg Glu Ile Gly His Gln Asp Ile Phe Pro Ala Glu Lys Leu Cys
42 30 35 40
44 cat ctg cag gat cgc aag gtg aac ctt cac aga gct gcc tgg ggc gag 256
45 His Leu Gln Asp Arg Lys Val Asn Leu His Arg Ala Ala Trp Gly Glu
46 45 50 55
48 tgt att gtt gca ccc aag act ctc agc ttc tct tac tgt cag ggg acc 304
49 Cys Ile Val Ala Pro Lys Thr Leu Ser Phe Ser Tyr Cys Gln Gly Thr
50 60 65 70 75
52 tgc ccg gcc ctc aac agt gag ctc cgt cat tcc agc ttt gag tgc tat 352
53 Cys Pro Ala Leu Asn Ser Glu Leu Arg His Ser Ser Phe Glu Cys Tyr
54 80 85 90
56 aag agg gca gta cct acc tgt ccc tgg ctc ttc cag acc tgc cgt ccc 400
57 Lys Arg Ala Val Pro Thr Cys Pro Trp Leu Phe Gln Thr Cys Arg Pro
58 95 100 105
60 acc atg gtc aga ctc ttc tcc ctg atg gtc cag gat gac gaa cac aag 448
61 Thr Met Val Arg Leu Phe Ser Leu Met Val Gln Asp Asp Glu His Lys
62 110 115 120
64 atg agt gtg cac tat gtg aac act tcc ttg gtg gag aag tgt ggc tgc 496
65 Met Ser Val His Tyr Val Asn Thr Ser Leu Val Glu Lys Cys Gly Cys
66 125 130 135
68 tct tqa qataccccaa aqcctcctac tggcctcagg gccacctaag tctcaggact 552

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 89 Gly Gln Asp Ile Phe Pro Ala Glu Lys Leu Cys His Leu Gln Asp Arg
 90 35 40 45
 92 Lys Val Asn Leu His Arg Ala Ala Trp Gly Glu Cys Ile Val Ala Pro
 93 50 55 60
 95 Lys Thr Leu Ser Phe Ser Tyr Cys Gln Gly Thr Cys Pro Ala Leu Asn
 96 65 70 75 80
 98 Ser Glu Leu Arg His Ser Ser Phe Glu Cys Tyr Lys Arg Ala Val Pro
 99 85 90 95
 101 Thr Cys Pro Trp Leu Phe Gln Thr Cys Arg Pro Thr Met Val Arg Leu
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 124 Met Arg Phe Phe Ser Ala Arg Gln His Gly Phe Thr Leu Ile Phe Lys
 125 1 5 10 15
 127 aag aca aag att cca gcc act gat gtc gct gat gcc agc ctg aat gaa 156
 128 Lys Thr Lys Ile Pro Ala Thr Asp Val Ala Asp Ala Ser Leu Asn Glu
 129 20 25 30
 131 tgt tcc agt acc gaa agg aaa caa gac gta gtg ttg ctg ttc gtg acc 204
 132 Cys Ser Ser Thr Glu Arg Lys Gln Asp Val Val Leu Leu Phe Val Thr
 133 35 40 45
 135 ttg tcc cac aca cag cca cct ctg ttt cac ctg cct tat gtc cag aaa 252
 136 Leu Ser His Thr Gln Pro Pro Leu Phe His Leu Pro Tyr Val Gln Lys
 137 50 55 60
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144	Asn	Arg	Arg	Glu	Ile	Gly	His	Gly	Gln	Asp	Ile	Phe	Pro	Ala	Glu	Lys
145							85				90					95
147	ctc	tgc	cat	ctg	cag	gat	cgc	aag	gtg	aac	ctc	cac	aga	gct	gcc	tgg
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151	ggc	gag	tgt	att	gtt	gca	ccc	aag	act	ctc	agc	ttc	tct	tac	tgt	cag
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155	ggg	acc	tgc	ccg	gcc	ctc	aac	agt	gag	ctc	cgt	cat	tcc	agc	ttt	gag
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163	cgt	ccc	acc	atg	gtc	aga	ctc	ttc	tcc	ctg	atg	gtc	cag	gat	gac	gaa
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167	cac	aag	atg	agt	gtg	cac	tat	gtg	aac	act	tcc	ttg	gtg	gag	aag	tgt
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197	Leu	Ser	His	Thr	Gln	Pro	Pro	Leu	Phe	His	Leu	Pro	Tyr	Val	Gln	Lys
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200	Pro	Leu	Ile	Ser	Asn	Val	Glu	Gln	Leu	Ile	Leu	Gly	Ile	Pro	Gly	Gln
201	65						65			70			75			80
203	Asn	Arg	Arg	Glu	Ile	Gly	His	Gly	Gln	Asp	Ile	Phe	Pro	Ala	Glu	Lys
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206	Leu	Cys	His	Leu	Gln	Asp	Arg	Lys	Val	Asn	Leu	His	Arg	Ala	Ala	Trp
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215 Cys Tyr Lys Arg Ala Val Pro Thr Cys Pro Trp Leu Phe Gln Thr Cys
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241          35          40          45
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249 Ala Ser Leu Leu Val Val Thr Leu Asn Pro Asp Gln Cys His Pro Ser
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252 Arg Lys Arg Arg Ala Ala Ile Pro Val Pro Lys Leu Ser Cys Lys Asn
253          100         105         110
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262 145         150         155         160
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280 <213> ORGANISM: Homo sapiens
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Input Set : A:\00659Aseq.txt
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302 gatcagctac aagctgtggg gggtagaat agggctaca gctgggcacg tggatattta 180
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VERIFICATION SUMMARY

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date